



The HDS 3000-24V Power System

Description:

The HDS 3000 series power system combines a compact modular design with intelligent power features and state-of-the-art technology. The HDS 3000-24V power system is capable of providing up to 67.2 kW of reliable DC power. It contains six rectifier shelves for up to 24 rectifiers and converter shelves (in 24V system for -48V DC output), as well as different distribution units with configurable elements for AC, DC distribution, LVDS and power system controller.



Features

- Up to 67.2k W installed power in a 7 ft frame
- Expandable DC/DC converter shelf for 2nd Vdc output
- Constant power design
- Intelligent system controller
- NEB Level III certified

Specification

<u>General</u>

Efficiency, at 220Vrms 89.5 %

Safety UL/cUL EMI, radiated compliant with

FCC Part 15 class B

EN 55022 class B

Input

220 V_{rms} 1 Φ or 3 Φ AC connection Voltage range 176 ... 275 V_{rms} Frequency range 45 ... 65 Hz

Current nominal 64 A@ 67.2kW per shelf, 1Φ 37 A@ 67.2kW per shelf, 3Φ Inrush current < 84 A_{peak} per shelf, 1 Φ

 $< 48.5 \ A_{\rm peak} \ {\rm per \ shelf}, \ 3 \ \varPhi$ EMI, conducted compliant with FCC Part 15 class B

EN 55022 class B

<u>Output</u>

 $27 V_{dc}$ Voltage, nominal Voltage adjust range $20\;...\;29\;V_{dc}$ Load sharing < ± 5%

DC/DC Converter Up to 4 converter modules (Optional) LVDS 1200 A x 2 on load side (Optional) External Dead Front Fuse, 800A x 2 Battery Disconnect

(Optional)

Power module

Rectifier ESR 24 V - 2800W - D Converter DD 55 V -1300W - A

Environment

Operating temperature - 20 ... + 60 °C

95 % max, non condensing Relative humidity - 500 ~ 10000 feet Altitude

Power system controller

Intelligent Controller

Relay outputs

Up to 24 relay outputs (Optional)

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*Specifications are subject to change